

CCTGACCGGCCGGCGGCCCGGGCCGGTCTCGCCCCTCTACCGAGCGCCTCGCCGCC
 CCCTCCCCGGCCCGCGTCCCCTCCCCGTCTCTCTCCCCGCCCGCCCGCCCTCTC
 GGGGGGAGGGGCGTGGGGGCAGGGAGCCGATTTGCATGCGGCCGCCGCGGCCGCTG
 CCTGAGCCGGAGCCCGCCGCCGCGGAGCCCGCGCCCGCGCCCGCGCCCGGCCGCG
 CGGCCCCATGCCTCTGGCGCGGCCCTCGGGGGGGCGAAGGTGAAGATCGGCTCCTAG
 GATGAGTGAAGGGGCGGCCGGTGCCTCGCCACCTGGTGCCGCTTCGGCAGCCGCCGC
 CTCAGCCGAGGAGGGCACCGCGGCGGCTGCGGCGGCGGCGGCGGCGGGCGGGGGCC
 CGGACGGCGGCGGAGAAGGGGCGGCCGAACCCCCCGGGAGTTACGCTGTAGCGACT
 GCATCGTGTGGAACCGGCAGCAGACGTGGTTGTGCGTGGTGCCTCTGTTTCATCGGCTT
 CATCGGCCTGGGGCTCAGCCTCATGCTGCTTAAATGGATCGTGGTAGGCTCCGTCAAG
 GAGTACGTGCCACGGACCTGGTGGACTCCAAGGGAATGGGCCAGGACCCCTTCTTCC
 TCTCAAAGCCCAGCTCTTTCCCCAAGGCTATGGAAACCACCACAACAACCACTTCTACC
 ACGTCCCCCGCCACCCCTCTGCCGGCGGCGCCGCTTCTTCCAGGACGCCTAACCGGA
 TTAGCACCCGCTTGACCACCATCACACGGGCACCCACCCGCTTCCCTGGGCACCGGGT
 TCCCATCCGGGCTAGCCCGCGCTCTACCACAGCACGGAACACTGCTGCCCTCCGACG
 GTCCTGTCCACCACGGCCCCCTTTCTTCAGTAGCAGCACGCCCGGCTCCCGACCCCGAT
 GCCAGGAGCCCCCAGTACGCAGGCGATGCCTTCTGGCCCACTGCGGCGTATGCTACC
 TCCTCCTACCTCCACGATTCCACTCCCTCCTGGACCCTGTCACCCTTTCAGGATGCTGC
 TGCCGCTCTTCTCCTCACCTCTTCCACCTCCTCCACTACCACCACCCAGAACTA
 GCACCAGCCCCAAATTTCACTACTACAATACTCCACTGAACGATCTGAGCACTTCAA
 ACCCTGTCGAGACAAGGACCTGGCGTATTGTCTCAATGATGGTGAATGCTTTGTGATT
 GAGACCCTGACAGGATCCCATAAGCACTGTGCGGTGCAAGGAAGGCTACCAAGGAGTC
 CGTTGTGATCAATTTCTGCCGAAAACAGACTCCATCTTATCGGATCCAACAGACCACTT
 GGGGATTGAATTCATGGAGAGTGAAGACGTTTATCAAAGGCAGGTGCTGTCAATTTCA
 TGTATCATCTTTGGAATTGTCATCGTGGGCATGTTCTGTGCAGCATTCTACTTCAAAAG
 CAAGAAACAAGCTAAACAAATTTCAGGAGCACCTGAAAGAGTCACAGAATGGGAAGAA
 CTACAGCCTCAAGGCATCCAGCACAAAGTCTGAGAGCTTGATGAAGAGCCATGTCCAT
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 AGTCAAGTTTTTCAGCTCCCCAGTCGTTCCAGAAAGTCACTTCTCCTGACCGAGGAAG
 CCAGCCTATCAAGCACACAGCCAGGACAAAGGAGTGGGATGTTGCATAGGAATAC
 TTTCAGAAGGGCACCACTCACCCTCAGCCGAAGTCGACTGGGTGGTATTGTAGGACCAGCA
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 GAAGAAACCTGCATGCAAATGCCAGGGATTTCTGACGTCAAAGCATTAAATGGTGCA
 AAACTCCTACTCCGCTGACATTGTCAACGCGAGTATGCCAGTCAGTGATTGTCTTCTA
 GAAGAACAACAGGAAGTAAAAATATTACTAGAGACTGTGCAGGAACAGATCCGGATT
 CTGACTGATGCCAGACGGTCAGAAGACTTCGAAGTGGCCAGCATGGAACTGAGGAC
 AGTGCGAGCGAAAACACAGCCTTTCTCCCCCTGAGTCCCACGGCCAAATCAGAACGAG
 AGGCACAATTTGTCTTAAGAAATGAAATACAAAGAGACTCTGTGCTAACCAAGTGA
 GGAAATGTAGGAATCTGTGCATTATATGCTTTGCTAAACAGGAAGGAGAGGAAATTA
 AATACAAATTATTTATATGCATTAATTTAAGAGCATCTACTTAGAAGCC

Figure 1

TCACCGACCTAGTGGACTCCACTAGGTTCGGTGGGCACGTA CTCTTGACGGAGCCCAC
CACGATCCATTTGAGAAGCATGAGGCGCGGCCCATGCCTCTGCCGCGGCCCTCGGGG
GGGCGAAGGTGAANACCGGCTCCTAGGATGAGTGAAGGGGCGGCCGCTGCCTCGCCA
CCTGGTGCCGCTTCGGCAGCCGCCGCTCGGCCGAGGAGGGCACCGCGGCGGCTGCG
GCGGCGGCAGCGGCGGGCGGGGGCCCGACGGCGGCGGCGAAGGGGCGGCCGAGCC
CCCCGGGAGTTACGCTGTAGCGACTGCATCGTGTGGAACCGGCAGCAGACGTGGCT
GTGCGTGGTACCTCTGTTTCATCGGCTTCATCGGCCTGGGGCTCAGCCTCATGCTTCTCA
AATGGATCGTGGTGGGCTCCGTCAAGGAGTACGTGCCACCGACCTAGTGGACTCCAA
GGGGATGGGCCAGGACCCCTTCTTCTCTCCAAGCCCAGCTCTTTCCCCAAGGCCATG
GAGACCACCACCACTACCACTTCCACCACGTCCCCCGCCACCCCTCCGCGGGGGTG
CCGCTCCTCCAGGACGCCAACC GGATTAGCACTCGCTGACCACCATCACGCGGGC
GCCC ACTCGCTTCCCCGGGCACCGGGTGCCCATCCGGGCCAGCCCGCGCTCCACCACA
GCACGGAACACTGCGGCCCTGCGACGGTCCCGTCCACCACGGCCCCGTTCTTCAGTA
GCAGCACGCTGGGCTCCCGACCCCGGTGCCAGGAACTCCAAGTACCCAGGCAATGCC
CTCCTGGCCTACTGCGGCATACGCTACCTCCTCTACCTTACGATTCTACTCCCTCCT
GGACCCTGTCTCCCTTTCAGGATGCTGCCTCCTCTTCTTCTCTTCTCTCTCCGCTA
CCACCACCACACCAGAACTAGCACCAGCCCCAAATTTATACGACGACATATTCCAC
AGAGCGATCCGAGCACTTCAAACCCTGCCGAGACAAGGACCTTGATACTGTCTCAAT
GATGGCGAGTGCTTTGTGATCGAAACCCTGACCGGATCCCATAAACTGTGCGGTGCA
AAGAAGGCTACCAAGGAGTCCGTTGTGATCAATTTCTGCCGAAAATGATTCCATCTT
ATCGGATCCAACAGACCACTTGGGGATTGAATTCATGGAGAGTGAAGAAGTTTATCAA
AGGCAGGTGCTGTCAATTTTCATGTATCATCTTTGGAATTGTCATCGTGGGCATGTTCTG
TGCAGCATTCTACTTCAAAAGCAAGAAACAAGCTAAACAAATCCAAGAGCAGCTGAA
AGTGCCACAAAATGGTAAAAGCTACAGTCTCAAAGCATCCAGCACAAATGGCAAAGTC
AGAGAACTTGGTGAAGAGCCATGTCCAGCTGCAAAATTATTCAAAGGTGGAAAGGCA
TCCTGTGACTGCATTGGAGAAAATGATGGAGTCAAGTTTGTGCGCCCCCAGTCATTC
CCTGAGGTCCCTTCTCCTGACAGAGGAAGCCAGTCTGTCAAACACCACAGGAGTCTAT
CCTCTTGCTGCAGCCCAGGGCAAAGAAGTGGCATGCTCCATAGGAATGCCTTCAGAAG
GACACCCCGCTACCCCGAAGTAGGCTAGGTGGAATTGTGGGACCAGCATATCAGCA
ACTCGAAGAATCAAGGATCCCAGACCAGGATACGATACCTTGCCAAGGGATAGAGGT
CAGGAAGACTATATCCCACCTGCCTATACAGCTGTGGTGTGTTGAAAGACCCCTGGAC
TTAAAGTATTTCATCCAGTGGTTTAAAAACCCAACGAAATACATCAATAAATATGCAAC
TGCCTTCAAGAGAGACAAACCCCTATTTTAAATAGCTTGGAGCAAAAGGACCTGGTGGG
CTATTTCATCCACAAGGGCCAGTTCTGTGCCCATCATCCCTTCAGTGGGTTTAGAGGAA
ACCTGCCTGCAAATGCCAGGGATTTCTGAAGTCAAAGCATCAAATGGTGCAAAAAT
CCTATTTCAGCTGACGTTGTCAATGTGAGTATTCCAGTCAGCGATTGTCTTATAGCAGA
ACAACAAGAAGTGAAAATATTGCTAGAACTGTCCAGGAGCAGATCCGAATTCTGACT
GATGCCAGACGGTCAGAAAGACTACGAACTGGCCAGCGTAGAAACCGAGGACAGTGCA
AGCGAAAACACAGCCTTTCTCCCCCTGAGTCCCACAGCCAAATCAGAACGAGAGGCGC
AATTTGTCTTAAGAAATGAAATACAAAGAGACTCTGCATTGACCAAGTGACTTGAGAT
GTAGGAATCTGTGCATTCTATGCTTTGCTCAACAGGAAAGAGAGGAAATCAAATACAA
ATTATTTATATGCATTAATTTAAGAGCATCTACTTAGAAGAAACCAATAGTCTATCGC
CCTCATATCATAGTGTTTTTTAACAAAATATTTTTTTAAGGGAAAGAAATGTTTCAGGA
GGGATAAAGCTT

Figure 2

ATGAGTGAAGGGGCGGCCGCTGCCTCGCCACCTGGTGCCGCTTCGGCAGCCG
 CCGCCTCGGCCGAGGAGGGCACCGCGGCGGCTGCGGCGGCGGCAGCGGCGG
 GCGGGGGCCCGGACGGCGGCGGCGAAGGGGCGGCCGAGCCCCCGGGAGT
 TACGCTGTAGCGACTGCATCGTGTGGAACCGGCAGCAGACGTGGCTGTGCGT
 GGTACCTCTGTTTCATCGGCTTCATCGGCCTGGGGCTCAGCCTCATGCTTCTCA
 AATGGATCGTGGTGGGCTCCGTCAAGGAGTACGTGCCCACCGACCTAGTGGA
 CTCCAAGGGGATGGGCCAGGACCCCTTCTTCCTCTCCAAGCCCAGCTCTTTCC
 CCAAGGCCATGGAGACCACCACCACTACCACTTCCACCACGTCCCCCGCCACC
 CCCTCCGCGGGGGGTGCCGCCTCCTCCAGGACGCCCAACCGGATTAGCACTCG
 CCTGACCACCATCACGCGGGCGCCCACTCGCTTCCCCGGGCACCGGGTGCCCA
 TCCGGGCCAGCCCGCGCTCCACCACAGCACGGAACACTGCGGGCCCCTGCGAC
 GGTCCCGTCCACCACGGCCCCGTCTTCAGTAGCAGCACGCTGGGCTCCCGAC
 CCCCAGTGCCAGGAACTCCAAGTACCCAGGCAATGCCCTCCTGGCCTACTGCG
 GCATACGCTACCTCCTCCTACCTTCACGATTCTACTCCCTCCTGGACCCTGTCT
 CCCTTTCAGGATGCTGCCTCCTCTTCTTCTCCTCCTCCTCCGCTACCACC
 ACCACACCAGAACTAGCACCCAGCCCCAAATTTTCATACGACGACATATTCCAC
 AGAGCGATCCGAGCACTTCAAACCCTGCCGAGACAAGGACCTTGCATACTGTC
 TCAATGATGGCGAGTGCTTTGTGATCGAAACCCTGACCGGATCCCATAAACAC
 TGTCGGTGCAAAGAAGGCTACCAAGGAGTCCGTTGTGATCAATTTCTGCCGAA
 AACTGATTCCATCTTATCGGATCCAACAGACCACTTGGGGATTGAATTCATGG
 AGAGTGAAGAAGTTTATCAAAGGCAGGTGCTGTCAATTTTCATGTATCATCTTT
 GGAATTGTCATCGTGGGCATGTTCTGTGCAGCATTCTACTTCAAAAGCAAGAA
 ACAAGCTAAACAAATCCAAGAGCAGCTGAAAGTGCCACAAAATGGTAAAAGC
 TACAGTCTCAAAGCATCCAGCACAAATGGCAAAGTCAGAGAACTTGGTGAAGA
 GCCATGTCCAGCTGCAAAATTATTCAAAGGTGGAAAGGCATCCTGTGACTGCA
 TTGGAGAAAATGATGGAGTCAAGTTTTGTGCGCCCCCAGTCATTCCCTGAGGT
 CCCTTCTCCTGACAGAGGAAGCCAGTCTGTCAAACACCACAGGAGTCTATCCT
 CTTGCTGCAGCCCAGGGCAAAGAAGTGGCATGCTCCATAGGAATGCCTTCAG
 AAGGACACCCCCGTCACCCCCGAAGTAGGCTAGGTGGAATTGTGGGACCAGCA
 TATCAGCAACTCGAAGAATCAAGGATCCCAGACCAGGATACGATACCTTGCCA
 AGGGTATTCATCCAGTGGTTTAAAAACCCAACGAAATACATCAATAAATATGC
 AACTGCCTTCAAGAGAGACAAACCCCTATTTTAATAGCTTGGAGCAAAAGGAC
 CTGGTGGGCTATTTCATCCACAAGGGCCAGTTCTGTGCCCATCATCCCTTCAGT
 GGGTTTAGAGGAAACCTGCCTGCAAATGCCAGGGATTCTGAAGTCAAAGC
 ATCAAATGGTGCAAAAACCTCCTATTTCAGCTGACGTTGTCAATGTGAGTATTCC
 AGTCAGCGATTGTCTTATAGCAGAAACAAGAAGTGAAAATATTGCTAGAA
 ACTGTCCAGGAGCAGATCCGAATTCTGACTGATGCCAGACGGTCAGAAGACT
 ACGAACTGGCCAGCGTAGAAACCGAGGACAGTGCAAGTGAAAACACAGCCTT
 TCTCCCCCTGAGTCCCACAGCCAAATCAGAACGAGAGGCGCAATTTGTCTTAA
 GAAATGAAATACAAAGAGACTCTGCATTGACCAAGTGA

Figure 3

hNRG3B1 1 MSEGAAASPPGAASAAAASAEEGTAAAAAAAAAGGGPDGGGEGAAEPPR
mNRG3 1 MSEGAAASPPGAASAAAASAEEGTAAAAAAAAAGGGPDGGGEGAAEPPR

hNRG3B1 51 ELRCSDCIVWNROQTWLCVVPLFIGFIGLGLSLMLLKWIVVGSVKEYVPT
mNRG3 51 ELRCSDCIVWNROQTWLCVVPLFIGFIGLGLSLMLLKWIVVGSVKEYVPT

hNRG3B1 101 PLVDSKGMGQDPFFLSKPSSFPKAMETTTTTTSTTSPATPSAGGAASSRT
mNRG3 101 PLVDSKGMGQDPFFLSKPSSFPKAMETTTTTTSTTSPATPSAGGAASSRT

hNRG3B1 151 PNRISTRLLTITRAPTRFPGHRVPIRASPRSTTARNTAAPATVPSTTAPF
mNRG3 151 PNRISTRLLTITRAPTRFPGHRVPIRASPRSTTARNTAAPATVLPSTTAPF

hNRG3B1 201 FSSSTLGSRPPVPGTPTQAMPSPWPTAAYATSSYLHDSTPSWTLSPFQD
mNRG3 201 FSSSTPGSRPPMPGAPSTOAMPSPWPTAAYATSSYLHDSTPSWTLSPFQDA

hNRG3B1 250 AASSSSSSSSSAATTTTPETSTSPKFHTTTTYSTERSEHFKEPDRKDLAYC
mNRG3 251 AAASSSSPSSSTSTTTTTPETSTSPKFHTTTTYSTERSEHFKEPDRKDLAYC

hNRG3B1 299 LNDGEFVIEETLTGSHKHREKEGYQGVRCDOFLPKTDSILSDPTDHLGI
mNRG3 301 LNDGEFVIEETLTGSHKHREKEGYQGVRCDOFLPKTDSILSDPTDHLGI

hNRG3B1 349 EFMESEEVYQROVLSISCIIFGIVIVGMFCAAFYFKSKKQAKQIQEQLKV
mNRG3 351 EFMESEDEVYQROVLSISCIIFGIVIVGMFCAAFYFKSKKQAKQIQEHLKE

hNRG3B1 399 PONGKSYSLKASSTMAKSENLVKSHVQLQNYSKVERHPVTALEKMMESSF
mNRG3 401 SONGKNYSLKASST--KSESLMKSHVHLQNYSKADHPVTALEKIMESSF

hNRG3B1 449 VGPOSFPEVPSPDGRGSOVKHHRSLSSCCSPGQRSGMLHRNAFRRTPPSP
mNRG3 449 SAPOSFPEVTPSPDGRGSOPIKHH-----SPGQRSGMLHRNTERRAPPSP

hNRG3B1 499 RSRLGGIVGPAYQOLEESRIPDQDTPCGIEVRKTISHLP IQLWCVERP
mNRG3 492 RSRLGGIVGPAYQOLEESRIPDQDTPCGIEVRKTISHLP IQLWCVERP

hNRG3B1 549 LDKYSSSGLKTRNTSINMQLPSRETNPFNSLEPKDLVGYSSTRASSV
mNRG3 542 LDKYVSNGLRTOQNASINMQLPSRETNPFNSLDPKDLVGYSSTRANSV

hNRG3B1 599 PIIPSVGLEETCLOMPGISIEVKS IKWCKNSYSADVNVVSIIPVSDCLIAEQ
mNRG3 592 PIIPSVGLEETCMOMPGISIDVKS IKWCKNSYSADVNVASMPVSDCVIEEQ

hNRG3B1 649 DEVKILLETVQEQIRILTDARRSEDYELASVETEDSASENTAFLPLSPTA
mNRG3 642 DEVKILLETVQEQIRILTDARRSEDFELASMETEDSASENTAFLPLSPTA

hNRG3B1 699 KSEREAQFVLRNEIQRDSALTK
mNRG3 692 KSEREAQFVLRNEIQRDSVLTKE

Figure 4A

HNRG3B1 1 MSEGAAAASPPGAASAAAAAEEGTAAAAAAAAGGGPDGGGEGAAEPPR
 HNRG3B2 1 MSEGAAAASPPGAASAAAAAEEGTAAAAAAAAGGGPDGGGEGAAEPPR

HNRG3B1 51 ELRCSDCIVWNRQOTWLCVVPFLFIGFIGLGLSLMLLKWIVVGSVKEYVPT
 HNRG3B2 51 ELRCSDCIVWNRQOTWLCVVPFLFIGFIGLGLSLMLLKWIVVGSVKEYVPT

HNRG3B1 101 DLVDSKGMGQDPFFLSKPSSFPAKAMTTTTTTTSTTSPATPSAGGAASSRT
 HNRG3B2 101 DLVDSKGMGQDPFFLSKPSSFPAKAMTTTTTTTSTTSPATPSAGGAASSRT

HNRG3B1 151 PNRISTRLTTITRAPTRFPGHRVPIRASPRSTTARNTAAPATVPSTTAPF
 HNRG3B2 151 PNRISTRLTTITRAPTRFPGHRVPIRASPRSTTARNTAAPATVPSTTAPF

HNRG3B1 201 FSSSTLGSRPPVPGTPTQAMPSPWPTAAYATSSYLHDSTPSWTLSPPFODA
 HNRG3B2 201 FSSSTLGSRPPVPGTPTQAMPSPWPTAAYATSSYLHDSTPSWTLSPPFODA

HNRG3B1 251 ASSSSSSSSSATTITPETSTSPKFHTTTTSTERSEHFKPCRDKDLAYCLN
 HNRG3B2 251 ASSSSSSSSSATTITPETSTSPKFHTTTTSTERSEHFKPCRDKDLAYCLN

HNRG3B1 301 DGE CFVIETLTGSHKHCRCKEGYOGVRCDOFLPKTDSILSDPTDHLGIEF
 HNRG3B2 301 DGE CFVIETLTGSHKHCRCKEGYOGVRCDOFLPKTDSILSDPTDHLGIEF

HNRG3B1 351 MESEEVYQROVLSISCIIFGIVIVGMFCAAFYFKSKKOAKOIOEOLKVPO
 HNRG3B2 351 MESEEVYQROVLSISCIIFGIVIVGMFCAAFYFKSKKOAKOIOEOLKVPO

HNRG3B1 401 NGKSYSLKASSTMAKSENLVKSHVOLQNYSKVERHPVTALEKMMESSFVG
 HNRG3B2 401 NGKSYSLKASSTMAKSENLVKSHVOLQNYSKVERHPVTALEKMMESSFVG

HNRG3B1 451 POSFPEVPSPDRGSOSVKHHRSLSSCCSPGORSGLH'RNAFRRTPPSPRS
 HNRG3B2 451 POSFPEVPSPDRGSOSVKHHRSLSSCCSPGORSGLH'RNAFRRTPPSPRS

HNRG3B1 501 RLGGIVGPAYOOLEESRIPDODTIPCOG IEVRKTISHLP IQLWCVERPLD
 HNRG3B2 501 RLGGIVGPAYOOLEESRIPDODTIPCOG

HNRG3B1 551 LK YSSSGLKTORNTSINMQLPSRETNPYFNSLEOKDLVGYSSSTRASSVP I
 HNRG3B2 529 - - YSSSGLKTORNTSINMQLPSRETNPYFNSLEOKDLVGYSSSTRASSVP I

HNRG3B1 601 IPSVGLEETCLOMPGISEVKS IKWCKNSYSADVNV SIPVSDCLIAEOOE
 HNRG3B2 577 IPSVGLEETCLOMPGISEVKS IKWCKNSYSADVNV SIPVSDCLIAEOOE

HNRG3B1 651 VKILLETVOEQIRILTDARRSEDYELASVETEDSASENTAFLPLSPTAKS
 HNRG3B2 627 VKILLETVOEQIRILTDARRSEDYELASVETEDSASENTAFLPLSPTAKS

HNRG3B1 701 EREAQFVLRNEIORDSALT K
 HNRG3B2 677 EREAQFVLRNEIORDSALT K

Figure 4B

hNRG3.egf	288	HFKPCRDKDLAYCLNDGECFVIETLTGSHKH-CRCKEGYQGVRC-DQFI
cARIA.egf	137	HLTKCDIKQKAFQVNGGECYMKDLPNPPRYLCRCPNEFTGDRC-QNYV
hAR.egf	142	KKNPCNAEFQNEFCIH-GECKYIEHLEAVT---CKCQOEYFGERCGEKS
hBTC.egf	65	HFSRCPKQYKHICYK-GRCRFVVAEQTPS---CVCDEGYIGARCERVDL
hEGF.egf	972	SDSECPISHDGYCLHDGVCMYIEALDKYA---CNCVVGYYIGERCQYRDL
hHB-EGF.egf	104	KRDPCLRKYKDFCIH-GECKYVKELRAPPS---CICHPGYHGERCHGLSL
hHRGα.egf	178	HLVKCAEKEKTFCVNGGECFMVKDLSNPSRYLCCKCPGFTGARCTENYP
hHRGβ.egf	178	HLVKCAEKEKTFCVNGGECFMVKDLSNPSRYLCCKCPNEFTGDRC-QNYV
hTGFα.egf	43	HFNDCPDSHTQECFH-GTCRFLVQEDKPA---CVCHSGYVGARCEHADL
mEPR.egf	57	QITKCSSDMDGYCLH-GQCIYLVDMREKF---CRCEVGYTGLRCEHFFL

Figure 5

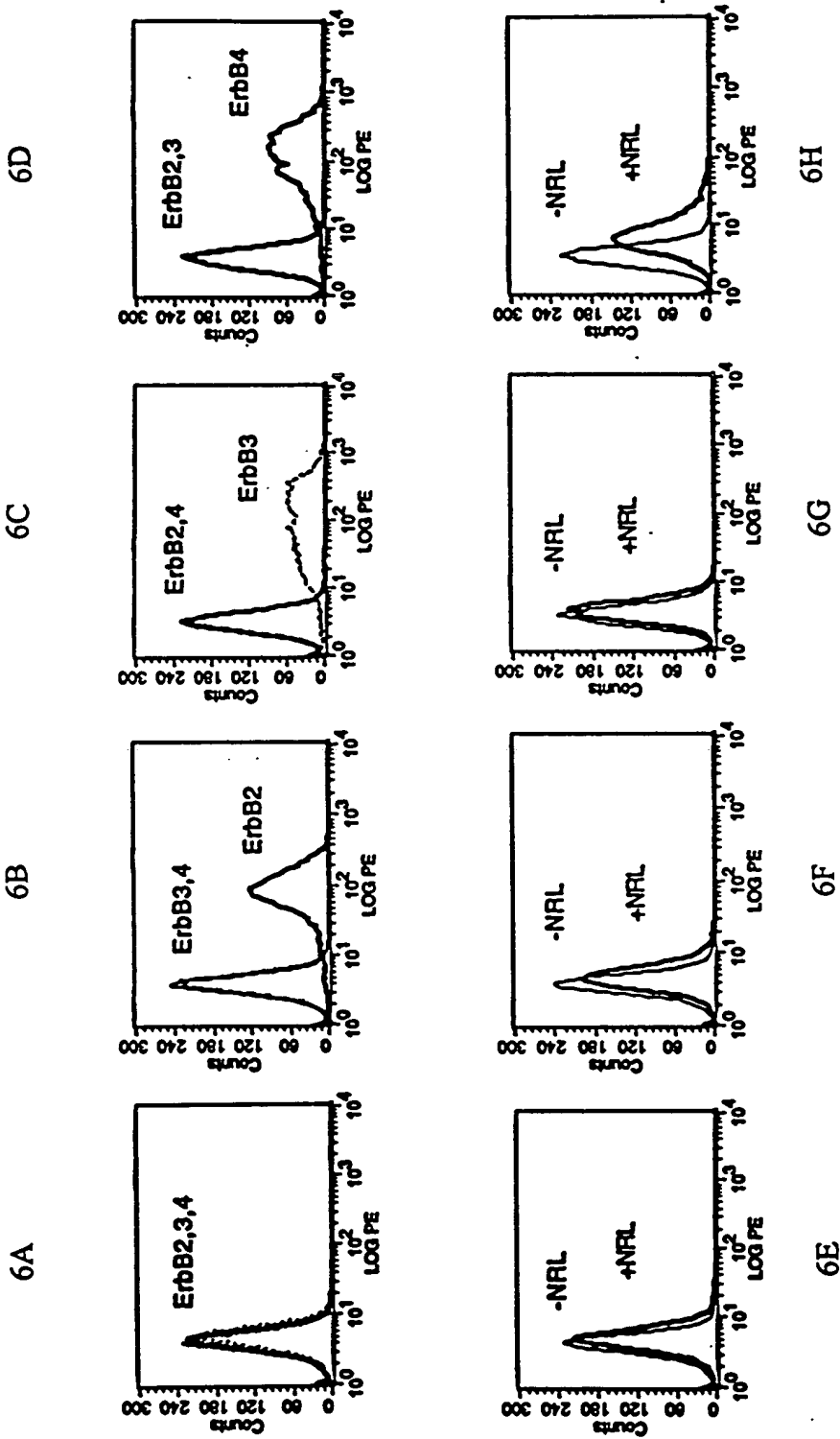


Figure 6A - 6H

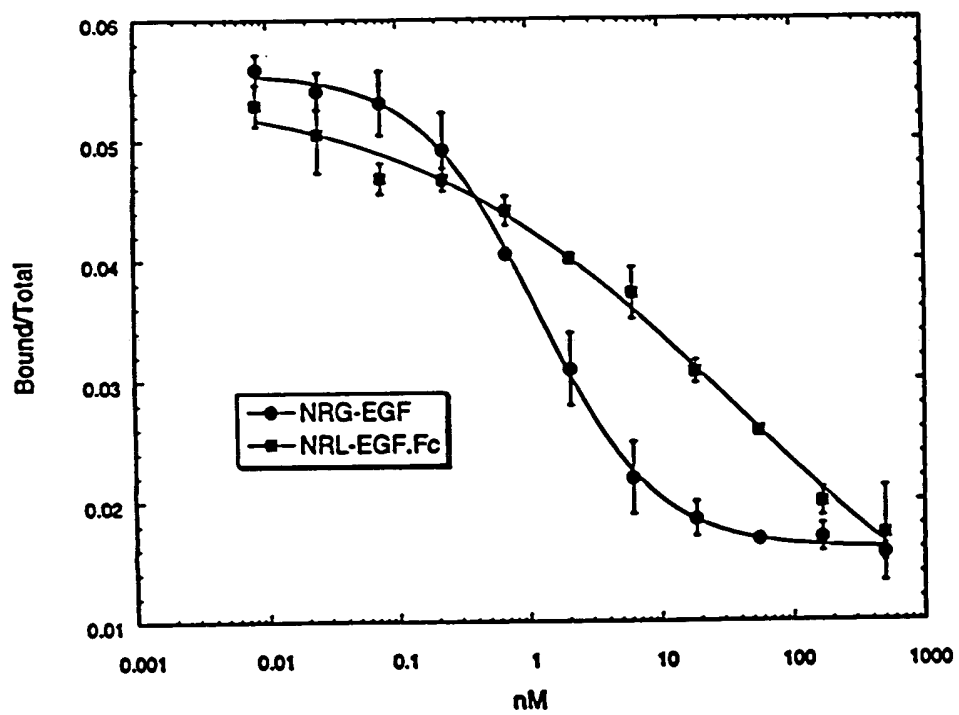


Figure 7